Currituck Sound Data Collection in Support of Modeling Activities

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General Plan

- Provide data for model boundary conditions
  - Inflows and outflows of
    - Water
    - Salt
    - Nutrients
    - Solids
- Provide data for model testing
  - Physical measures and nutrients at selected locations throughout study area
- Cooperatively with ECSU, NCERR, FWS, and COE (Duck Research Facility).

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USGS Role

- Flow measurements
- Training and quality assurance
  - Continuous measurements of physical parameters
  - Discrete water samples
- Database maintenance
- Historical data compilation

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Norfolk
Lynnhaven Bay
Lynnhaven River
Trants Point
Canal No. 2
WS1
London Bridge Creek
Virginia Beach
Shipps Corner Rd. crossing
Portsmouth
Southern Branch Elizabeth River
Limits
Princess Anne
Albemarle and Chesapeake Canal
AC1
Great Bridge Lock
West Neck Rd. crossing
Pungo
West Neck Creek
Hell Point Creek
Muddy Creek
Beggars Bridge Creek
Nawney Creek
Atlantic
North Landing River
Pocaty River
Blackwater Creek
Chesapeake
NL1
Back Bay
Millden Creek
Oakum Creek
Dead Creek
Walnut Creek
VIRGINIA
NORTH CAROLINA
Northwest River
NW1
TC1
Tull Bay
Tull Creek
Currituck
Corolla
Currituck Perry Landing
CAMDEN COUNTY
CURRITUCK COUNTY
Barco
Ocean
Coinjock
CU2
Pasquotank River
WS2
Coinjock Canal
North River
Elizabeth City
PASQUOTANK COUNTY
Poplar Branch
Sound
Atlantic Intracoastal waterway
PERQUIMANS COUNTY
Albemarle
CU4
Point Harbor
EXPLANATION
CU4 Study site and site code
Virginia
Study area
North Carolina
Coastal Plain
LOCATION OF STUDY AREA AND COASTAL PLAIN PROVINCE IN VIRGINIA AND NORTH CAROLINA

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Next Steps

- Complete workplan for final phase of funding from NC DWR.
- Work with partners on data collection and quality assurance.
- Develop protocols for data handling and maintain database.
- Initiate historical data compilation.

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Site Number	Site Name	Group responsible for data collection			
		Flow	Continuous DO, T, S, Turbidity (note 3)	Water level	Water-Quality Samples (note 3)
1	Near mouth of Hell Point Creek	n/a	n/a	n/a	VADEQ
2	Near mouth of Muddy Creek	n/a	n/a	n/a	VADEQ
4	Near mouth of Northwest River	USGS	n/a	USGS	ECSU
5	Near mouth of Tull Creek	USGS	n/a	USGS	ECSU
6	Coinjock Canal	USGS	ECSU	USGS	ECSU
7	Albemarle and Chesapeake Canal	USGS	ECSU	USGS	ECSU
8	West Neck Creek	USGS	ECSU	USGS	ECSU
14	Currituck Sound south of Narrows	n/a	ECSU	note 1	ECSU
15	Currituck Sound north Wright Mem. Bridge	n/a	ECSU	note 1	ECSU
17	Mouth of Lynnhaven Bay	n/a	n/a	ACE	n/a
20	North Landing River at Old Pungo Ferry Br	USGS	ECSU	USGS	ECSU
21	Back Bay near mid-bay	n/a	FWS	note 1	FWS
23	Currituck Sound at approx. mid-sound	n/a	NC ERR	note 1	NC ERR
24	Currituck Sound at Wright Mem. Bridge	note 2	NC ERR	USGS	NC ERR
28	US ACE Res. Facility at Duck Pier	n/a	n/a	ACE	n/a

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